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LUPIN-DB: DEVELOPMENT AND DEPLOYMENT OF A SPECIALIZED DATABASE FOR LUPINE SPECIES

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Abstract

This paper presents the development and implementation of a database intended for the management of lupine species, with an initial focus on the model plant Arabidopsis thaliana. The backend development utilized MySQL and Python as the primary tools, while the frontend interface was built using HTML, CSS, and JavaScript with the Flask framework. The study addresses specific challenges related to the design and organization of the database, as well as the creation of an intuitive and user-friendly interface. Furthermore, implemented functionalities, such as search and detailed information visualization for lupine species, are discussed, along with examples of queries and obtained results. This implementation serves as a valuable tool for researchers and scientists working in the field of genetics and plant biology, enabling efficient and structured access to relevant data on lupine species and facilitating advancements in understanding and enhancing these plants.

Contents

List of Figures

CHAPTER 1

Introduction

CHAPTER 2

Methodology

CHAPTER 3

Database Implementation

Bibliography